

ABSTRACT

An antigen detection device for detecting the presence of an antigen in a fluid sample has a
5 substrate micro-fabricated to define an antigen detection well. An antibody is disposed in the
antigen detection well. The antibody is specific for the antigen being tested. An electrode
positioned adjacent the antigen detection well is used to detect conductivity, which in turn can
be used to determine whether the antibody is binding to an antigen.